WA3004
Four-Slot Battery Charger
User Guide

May 10, 2004 PN 400727.A

PSION TEKLOGIX

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Return-To-Factory Warranty

Psion Teklogix warrants a return-to-factory warranty for one year. In some regions, the warranty exceeds this period. Please contact your local Psion Teklogix office for details. For a list of offices, please refer to “Support Services and Worldwide Offices” on page 9. The warranty on Psion Teklogix manufactured equipment does not extend to any product that has been tampered with, altered, or repaired by any person other than an employee of an authorized Psion Teklogix service organization.

Service

When requesting service, please provide information concerning the nature of the failure and the manner in which the equipment was used when the failure occurred.Type, model and serial number should also be provided.

Support Services

Psion Teklogix provides a complete range of product support services to its customers. For detailed information, please refer to “Support Services & Worldwide Offices” on page 9.

Disclaimer

Every effort has been made to make this material complete, accurate and up-to-date. Psion Teklogix Inc. reserves the right to make changes without notice and shall not be responsible for any damages, including but not limited to consequential damages, caused by reliance on the material presented, including but not limited to typographical errors.

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FCC Information:

This device complies with part 15 of FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference

And

2. This device must accept any interference that may be received, including interference that may cause undesired operation.

Warning!

If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Psion Teklogix could void the user's authority to operate the equipment.

List of Approvals

North America
EMC: FCC part 15, subpart B
Class B; ICES-003/CSA108.8-M1983

Europe
CE Mark

FCC DECLARATION OF CONFORMITY (DoC)

Applicant's Name & Address:
PSION TEKLOGIX

2100 Meadowvale Blvd.
Mississauga, Ontario
Canada L5N 7J9
Contact Person: Iain Roy
Telephone No.: (905) 813-9900

US Representative's Name & Address:

ITECH - Intelligent Technologies
9454 Waples Street
San Diego, CA 92121
USA
Contact Person: Carl Gallenson
Telephone No.: 858 458 1500 ext 2358

Equipment Type/Environment: Computing Devices

Trade Name / Model No.: Workabout Pro Quad battery Charger
Year of Manufacture: 2004

Standard(s) to which Conformity is Declared:
The Workabout Pro Quad battery Charger supplied by Psion Teklogix, has been tested and found to comply with FCC PART 15, SUBPART B - UNINTENTIONAL RADIATORS, CLASS B COMPUTING DEVICES FOR HOME & OFFICE USE.

I, the undersigned, hereby declare that the equipment as tested is representative within manufacturing tolerance to units.

Legal Representative in U.S.	Applicant
Signature	Signature
Carl L. Gallenson	Robert Williams
Full Name	Full Name
Director of Engineering	V.P. of Engineering
Position	Position
San Diego, Ca	Mississauga, ON, Canada
Place	Place
June, 2004	June, 2004
Date	Date

Declaration of Conformity

Product:	Workabout Pro Quad Battery Charger
Application of Council Directives:	EMC Directive: 89/336/EEC Low Voltage Directive: 73/23/EEC
Conformity Declared to Standards:	EN 55022: 1998 Class B; EN 61000-3-2; EN 61000-3-3 EN 55024:1998; EN 61000-4-2; +/-4kV CD; +/-8kV AD EN 61000-4-3; 3V/m, 80-1000 MHz EN 61000-4-4; +/-1kV Power lines EN 61000-4-5; ±1kV Differential mode EN 61000-4-6; 3VRMS, 150kHz-80MHz EN 61000-4-11; AC Mains Ports EN 60950-1: 2001- Information Technology Equipment - Safety
Manufacturer:	ITECH - Intelligent Technologies 9454 Waples Street San Diego, CA 92121
Manufacturer's Address in the European Community:	PSION TEKLOGIX S.A. La Duranne; 135 Rue Rene Descartes; BP 421000 13591 Aix-En-Provence Cedex 3; France
Year of Manufacture:	2003
Type of Equipment:	Information Technology Equipment
Equipment Class:	Commercial and Light Industrial

I the undersigned hereby declare that the equipment specified above conforms to the above directives and standards.

Manufacturer:	Legal Representative in Europe:
Signature	Signature
Carl L. Gallenson	Dominique Binckly
Full Name	Full Name
Director of Engineering	Vice President International Sales
Position	Position
ITECH, San Diego, California	PSION TEKLOGIX S.A. France
Place	Place
June, 2004	June, 2004
Date	Date

Psion Teklogix WA3004
Four-station Charger User Manual

1.0 Important Charger Safety Instructions

SAVE THESE INSTRUCTIONS – This manual contains important safety and operating instructions for battery charger.

- Before using the battery charger, read all instructions and cautionary markings on
  (1) battery charger, (2) battery, and (3) product using battery.
- Use of an attachment not recommended or sold by the battery charger manufacturer may result in fire, electric shock, or personal injury.
- To reduce risk of damage to the electric plug and cord when unplugging the charger, pull the plug rather than the cord.
- Make sure the cord is positioned so that it is not stepped on, tripped over, or otherwise subjected to damage or stress.
- Do not operate the charger with a damaged cord or plug. Replace immediately.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; it should be inspected by qualified service personnel.
- Do not disassemble the charger; it should be repaired by qualified service personnel. Incorrect reassembly may result in electric shock or fire.
- To reduce risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.

- An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in fire or electric shock.
- If an extension cord must be used, make sure:
    - The plug pins on the extension cord are the same number, size, and shape as those on the charger.
    - The extension cord is properly wired and in good electrical condition and that the wire size is larger than 16 AWG.
- Do not expose the charger to rain or snow.
- Do not use the charger if, after an overnight charge, any of the batteries feel warmer than the charger housing. The charger should be inspected by qualified service personnel.
- Do not use the charger if any of the batteries or the charger get more than lukewarm. The equipment should be inspected by qualified personnel.

THE MAINS POWER CORD SHALL COMPLY WITH NATIONAL SAFETY REGULATIONS OF THE COUNTRY WHERE THE EQUIPMENT IS TO BE SOLD.

CHARGER IS COMPATIBLE WITH 100-240VAC MAINS.

FOR INDOOR USE ONLY!

2.0 Four Slot Charger

• Note: Full capacity may not be reached for at least 5 full charge/discharge cycles.

It can take from 1.5 to 2 hours to charge a battery. The charger's intelligent charging system protects the battery from over-charging by terminating the charge process when the battery is at maximum capacity.

• Important:

To preserve battery integrity, the charger will proceed with a charge when the battery temperature falls between 0° C and 45° C (32° F to 113° F). If the battery is too hot or cold, the battery status LED is solid orange and the charge is suspended.

Your charger is shipped with the appropriate IEC mains power cord. If the supplied power cord is incorrect for your country, contact Psion Teklogix for assistance (see Appendix A: Support Services & Worldwide Offices).

2.1 Installation

Install the charger in an area that is free from excessive dirt, dust, and contaminants. The ambient temperature must be in the range 10°C to 35°C (50°F to 102°F). The charger will not charge batteries outside of this temperature range. For maximum performance, it is recommended that the charger be operated at room temperature - a temperature range between 18°C to 25°C (64°F to 77°F).

The charger can consume up to 1.6A @ 100-240VAC. Check to ensure the mains circuit supplying the charger is adequate for this loading (especially if several chargers are being powered from the same circuit).

After unpacking the unit, visually check it for damage. Connect the power supply to the charger. Then install the IEC power cord on the power supply. Connect the IEC wall plug to the wall socket. The charge indicator LEDs will become solid orange for 3 sec. followed by solid green for 3sec. to indicate that the charger is ready for operation.

2.2 Operator Controls

The charger does not have operator controls or a power switch.

2.3 Charge Indicators

The battery charger is equipped with bi-coloured LEDs to indicate the battery charge status. When the battery is inserted in the charger, the colour and behaviour of the LEDs indicate the status of the charge.

LED Behaviour	**Charge Status**
No Battery in Slot	
Off	No battery detected in slot.
Flashing Orange	Self test with power up. Charger failure if constant.
Battery in Slot	
Solid Green	Battery is fully charged.
Flashing Green - *slow*	Battery is charging.
Flashing Green - *fast*	Battery is charging with 80% or greater capacity.
Flashing Orange	Battery rejection.
Solid Orange	The battery temperature is out of range.

2.4 Charging Batteries

Install the battery from the rear of the charger - contacts down. Insert the battery until it is flush to the front and the contacts engage.

The charger LED immediately lights up. If the battery temperature falls outside of 0° C to 45° C (32° F to 115° F), the LED will be solid orange until the temperature is acceptable. A flashing green LED indicates that the battery is being charged. A fully discharged battery will normally take between 1.5 and 2.0 hours to charge. When the battery charge reaches 80%, the LED will flash green at a faster rate. At full capacity, it turns solid green.

When the battery is fully charged, the charger stops applying power; the battery cannot be overcharged if left in the charger slot. The 80% charge indicator can be handy if you need a quick recharge – it will often occur within 1.5 hours.

3.0 Troubleshooting

3.1 LED Flashes Orange With No Battery in Slot

If the indicator flashes Orange with no battery in a slot:

- Disconnect the mains power cable.
- Wait at least 20 seconds, and then plug the cable in again.

If the charge slot LEDs continue to flash orange, the charger is defective and requires service.

3.2 Power On LED Sequence Does Not Occur

- Remove all batteries, and unplug the power supply from the mains.
- Connect another device to the mains outlet to ensure there is power. NEXT
- Remove the IEC mains power cable from the power supply, and check it for damage.
- Remove the power cable from the charger, and check it for damage.
- Reconnect the charger mains cable and mains outlet. If the LEDs still does not light up, the charger requires service.

3.3 LED Does Not Light with Battery in Slot

- Inspect the charge slot contacts for damage (are they bent, flattened, twisted or broken).
- Reinstall the battery, and check that it is fully seated in the slot.
- Try inserting a battery that you know to be working in the charger slot.
- Reconnect the mains power cable, and check that the “power on LED sequence” occurs.

3.4 LED Solid Orange When Battery Placed in Slot

- The battery is outside the temperature range.
- Leave the battery in the charger. The charger will charge the battery when it reaches room room temperature.
- If the battery charge does not begin after 3 hours, the battery is defective and requires service.

3.5 LED Flashes Orange After Charge Begins

- Remove the battery from the slot to clear the LED.
- If the battery is warm to the touch, let it cool to room temperature.
- Insert the room-temperature-battery back in the charger.
- If flashing orange LED continues with the battery at room temperature, the battery is defective and requires service.

4.0 Cleaning the WA3004

• Important:

Do not immerse the unit in water. Dampen a soft cloth with mild detergent to wipe the unit clean.

- Use only mild detergent or soapy water on a slightly damp cloth to clean the WA3004 charger.
- Avoid abrasive cleaners, solvents or strong chemicals for cleaning.
- The WA3004 has a plastic case and stamped logo that is susceptible to harsh chemicals. The plastic and stamping is partially soluble in oils, mineral spirits and gasoline. They slowly decompose in strong alkaline solutions.
- To clean ink marks from the label, use isopropyl alcohol.

A.1 Support Services

Psion Teklogix provides a complete range of product support services to its customers worldwide. These services include post-installation technical support and product repairs.

A.1.1 Canada and USA: Technical Support and Repair Services

In Canada and the U.S.A. these services can be accessed through the Psion Teklogix Helpdesk. The Helpdesk coordinates repairs, helps you troubleshoot problems over the phone, and arranges for technicians or engineers to come to your site. Canadian and U.S. customers may receive access to technical support services, ranging from phone support to emergency on-site system support, by calling the toll-free number below, or via our secure web site.

Note: Customers calling the toll-free number should have their Psion Teklogix customer number or trouble ticket number available.

Voice: 1 800 387-8898
Fax: 1 905 812-6304
Web Site: http://service.psionteklogix.com

A.1.2 International Support

For technical support outside of Canada or the U.S.A., please contact your local Psion Teklogix office. See the next page for a listing of worldwide offices.

A.2 Worldwide Offices, Company Headquarters and Canadian Service Centre

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